## IN THE CLAIMS:

## Specific Instructions for Claim Amendments:

Please amend Claims 1, 5, 7, 9, 17-20, 57-62, and 66-71 as shown below, without prejudice to or disclaimer of the subject matter therein. All other pending claims are reiterated below without amendment.

Please add new Claims 73-78 as shown below.

## **Listing of Claims:**

- 1. (Currently Amended) An isolated protein capable of affecting an ABA response and comprising:
  - (i) a hydrophobic C-terminus;
  - (ii) at least one coiled coil region;
  - (iii) an EF-hand consensus sequence;
  - (iv) a nucleotide binding site; and optionally
  - (v) a hydrophilic N-terminus;

or a biologically active fragment or variant thereof;

wherein said protein, fragment or variant thereof affects participates in ABA signalling as measured by its ability to affect participate in ABA-mediated control of ion channels.

- 2. (Previously Amended) An isolated protein according to claim 1 which is capable of being cleaved by the toxin botulinum C.
  - 3. (Cancelled)
- 4. (Previously Amended) An isolated protein according to Claim 1 wherein the hydrophobic C-terminus comprises the sequence from position 282 to position 296 of the amino acid sequence shown in SEQ ID NO:2.
- 5. (Currently Amended) An isolated protein according to claim 4 1 wherein the hydrophobic C-terminus comprises the sequence from position 280 to position 294 of the amino acid sequence shown in SEQ ID NO:2.

- 6. (Previously Amended) An isolated protein according to Claim 1 wherein said at least one coiled coil region comprises the sequence from position 210 to position 247 of the amino acid sequence shown in SEQ ID NO:2.
- 7. (Currently Amended) An isolated protein according to Claim 6 1 wherein said at least one coiled coil regions comprises the sequence from position 216 to position 240 of the amino acid sequence shown in SEQ ID NO:2.
- 8. (Previously Amended) An isolated protein according to Claim 1 wherein said hydrophilic N-terminus comprises the sequence from position 1 to position 280 of the amino acid sequence shown in SEQ ID NO:2.
- 9. (Currently Amended) An isolated protein according to claim 8 1 wherein the hydrophilic N-terminus comprises the sequence from position 1 to position 279 of the amino acid sequence shown in SEQ ID NO:2.
- 10. (Previously Amended) An isolated protein according to Claim 1 wherein said nucleotide binding site comprises the sequence of positions 114 to 119 of the amino acid sequence shown in SEQ ID NO:2.
- 11. (Previously Amended) An isolated protein according to Claim 1 wherein the nucleotide binding site comprises the sequence of positions 116, 118 and 120 of the amino acid sequence shown in SEQ ID NO:2.
- 12. (Previously Amended) An isolated protein according to Claim 1 wherein said EF-hand consensus sequence comprises the sequence from position 16 to 28 of the amino acid sequence shown in SEQ ID NO:2.
- 13. (Previously Amended) An isolated protein according to Claim 1 wherein said hydrophobic C-terminus comprises a membrane spanning region.
- 14. (Previously Amended) An isolated protein according to Claim 1 wherein there are three coiled coil regions.
- 15. (Previously Amended) An isolated protein according to Claim 1 wherein said at least one coiled coil region corresponds to an epimorphin pattern.
- 16. (Previously Amended) An isolated protein according to Claim 6 wherein said at least one coiled coil region corresponds to an epimorphin pattern.

- 17. (Currently Amended) An isolated protein according to Claim 1 that is derived from a plant-or a mammal.
- 18. (Currently Amended) An isolated protein comprising the amino acid sequence shown in SEQ ID NO:2-or SEQ ID NO:4, or a biologically active fragment or variant thereof, wherein said protein, fragment thereof or variant thereof affects participates in ABA signalling as measured by its ability to affect participate in ABA-mediated control of ion channels.
- 19. (Currently Amended) An isolated A method of screening for protein-protein interaction comprising:
  - a) contacting a protein according to any one of Claims 1-18 with an expressed candidate ABA signalling component; and
  - b) detecting interaction between said protein and said ABA signalling component.
- 20. (Currently Amended) An isolated <u>ABA signalling component</u> protein selected using the method of claim 19.
  - 21-56. (Cancelled)
- 57. (Currently Amended) An isolated protein which affects an ABA response and comprises an amino acid sequence having at least 50% homology to the amino acid sequence shown in SEQ ID NO:2 or SEQ ID NO:4, or a biologically active fragment thereof, wherein said protein or fragment thereof affects participates in ABA signalling as measured by its ability to affect participate in ABA-mediated control of ion channels.
- 58. (Currently Amended) The isolated protein of Claim 57, comprising an amino acid sequence having at least 75% homology to the amino acid sequence shown in SEQ ID NO:2-or SEQ ID NO:4, or a biologically active fragment thereof, wherein said protein or fragment thereof affects participates in ABA signalling as measured by its ability to affects participate in ABA-mediated control of ion channels.
- 59. (Currently Amended) The isolated protein of Claim 57, comprising an amino acid sequence having at least 85% homology to the amino acid sequence shown in SEQ ID NO:2 or SEQ ID NO:4, or a biologically active fragment thereof, wherein said protein or

fragment thereof affects participates in ABA signalling as measured by its ability to affects participate in ABA-mediated control of ion channels.

- 60. (Currently Amended) The isolated protein of Claim 57, comprising an amino acid sequence having at least 95% homology to the amino acid sequence shown in SEQ ID NO:2-or SEQ ID NO:4, or a biologically active fragment thereof, wherein said protein or fragment thereof affects participates in ABA signalling as measured by its ability to affects participate in ABA-mediated control of ion channels.
- 61. (Currently Amended) An isolated protein which affects an ABA response and comprises the amino acid sequence shown in SEQ ID NO:2—or—SEQ-ID-NO:4, or a biologically active fragment thereof, wherein said protein or fragment thereof affects participates in ABA signalling as measured by its ability to affects participate in ABA-mediated control of ion channels.
- 62. (Currently Amended) An isolated protein encoded by a nucleic acid sequence comprising nucleotide positions 18 to 917 of SEQ ID NO:1 or nucleotide positions 77 to 991 of SEQ ID NO:3, wherein said protein affects participates in ABA signalling as measured by its ability to affects participate in ABA-mediated control of ion channels.
- 63. (Previously Added) An isolated protein according to Claim 62 capable of being cleaved by the toxin botulinum C.
- 64. (Previously Added) An isolated protein according to Claim 1, wherein said protein affects ABA-mediated control of guard cell K<sup>+</sup> and Cl<sup>-</sup> channels.
- 65. (Previously Added) An isolated protein according to Claim 1, wherein said protein affects ABA-mediated stoma closure regulation in a plant.
- 66. (Currently Amended) An isolated protein capable of affecting participating in an ABA response and comprising an amino acid sequence having at least 50% homology to the amino acid sequence shown in SEQ ID NO:2 or SEQ ID NO:4, or a biologically active fragment thereof.
- 67. (Currently Amended) An isolated protein capable of affecting participating in an ABA response and comprising an amino acid sequence having at least 75% homology

to the amino acid sequence shown in SEQ ID NO:2 or SEQ ID NO:4, or a biologically active fragment thereof.

- 68. (Currently Amended) An isolated protein capable of affecting participating in an ABA response and comprising an amino acid sequence having at least 85% homology to the amino acid sequence shown in SEQ ID NO:2 or SEQ ID NO:4, or a biologically active fragment thereof.
- 69. (Currently Amended) An isolated protein capable of affecting participating in an ABA response and comprising an amino acid sequence having at least 95% homology to the amino acid sequence shown in SEQ ID NO:2 or SEQ ID NO:4, or a biologically active fragment thereof.
- 70. (Currently Amended) An isolated protein capable of affecting participating in an ABA response and comprising the amino acid sequence shown in SEQ ID NO:2-or SEQ ID NO:4, or a biologically active fragment thereof.
- 71. (Currently Amended) An isolated protein capable of affecting participating in an ABA response and comprising an amino acid sequence encoded by a nucleic acid sequence comprising nucleotide positions 18 to 917 of SEQ ID NO:1 or nucleotide positions 77 to 991 of SEQ ID NO:3.
- 72. (Previously Added) An isolated protein according to Claim 71 capable of being cleaved by the toxin botulinum C.
- 73. (New) An isolated protein capable of inhibiting an ABA response and comprising an amino acid sequence having at least 50% homology to the amino acid sequence shown in SEQ ID NO:2, or a biologically active fragment thereof.
- 74. (New) The isolated protein of Claim 73, comprising an amino acid sequence having at least 75% homology to the amino acid sequence shown in SEQ ID NO:2, or a biologically active fragment thereof.
- 75. (New) The isolated protein of Claim 73, comprising an amino acid sequence having at least 85% homology to the amino acid sequence shown in SEQ ID NO:2, or a biologically active fragment thereof.

- 76. (New) The isolated protein of Claim 73, comprising an amino acid sequence having at least 95% homology to the amino acid sequence shown in SEQ ID NO:2, or a biologically active fragment thereof.
- 77. (New) An isolated protein capable of inhibiting an ABA response and comprising an amino acid sequence which has at least 50% homology to amino acids 1-279 of SEQ ID NO:2, or a biologically active fragment thereof.
- 78. (New) The isolated protein of Claim 77, comprising amino acids 1-279 of SEQ ID NO:2 or a biologically active fragment thereof.